

Gautam Bisht

Project Scientist

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Education and Training

Indian Institute of Technology, Kanpur, India, B.Tech., Civil Engineering, 2002

University of Cincinnati, Cincinnati, OH, M.S. Civil and Environmental Engineering, 2004

Massachusetts Institute of Technology, Cambridge, MA, Ph.D. Civil and Environmental Engineering, 2010

Research and Professional Experience

- 2012-present** **Project Scientist**, LBNL, Berkeley, CA. Current research efforts include: 1) understanding of statistical moments of soil moisture in presence of polygonal ground features in Arctic ecosystem; and 2) development of improved representation of subsurface processes in the Community Land Model (CLM) by coupling CLM and PFLOTRAN.
- 2010-2012** **Postdoctoral Research Associate**, National Center for Computational Sciences, Oak Ridge National Laboratory, Oak Ridge, TN.

Selected Publications

Bisht, G., and Bras, R. L., Estimation of net radiation from the Moderate Resolution Imaging Spectroradiometer over the Continental United States, IEEE Trans. of Geosciences and Remote Sensing, 49(6), 2448 - 2462, 201, doi:10.1109/TGRS.2010.2096227.

Knox, R., Bisht, G. Wang, J., Bras, R., Precipitation Variability over the Forest-to-Nonforest Transition in Southwestern Amazonia. J. Climate, 24, 23682377, 2011.
doi:10.1175/2010JCLI3815.

Bisht, G., and Bras, R. L., Estimation of net radiation from the MODIS data under all sky conditions: Southern Great Plains case study, Remote Sensing of Environment, 114(7), 1522-1534, 2010.

Wang, J., Changnon, F. J. F., Williams, E. R., Betts, A. K., Renno, N. O., Machado, L. A. T., Bisht, G., Knox, R., and Bras, R., The impact of deforestation in the Amazon basin on cloud climatology, PNAS, 106(10), 3670-3674, 2009.

Bisht, G., Venturini, V., Islam, S., and Jiang, L., Estimation of Net Radiation Using MODIS (Moderate Resolution Imaging Spectroradiometer) Terra data for clear sky days, Remote Sensing of Environment, 97(1), 52-6, 2005.

Collaborators and Co-Authors

B. Andre (LBNL), D. Dwivedi (LBNL), G. Hammond (SNL), F. Hoffman (ORNL), J. Kumar (ORNL), R. Mills (ORNL), W. J. Riley (LBNL)